

San Joaquin County Office of Education

STEM Professional Development Opportunities for Teachers 2019 - 2020

Make and Take Electro

November 19, 2019 | Grades 6-8 | \$210 | Register here <https://conta.cc/2Pam8uD>

Come and experience how electrophoresis can be used to address CA NGSS Performance Expectations and make a class set of equipment that will allow you to continue this activity in your classroom for years to come! This make and take workshop will begin with participants experiencing how the lesson can unfold based upon viewing an engaging phenomenon. Once observed, participants will model what they think is happening. Over time, they will plan and execute an experiment, develop a scientific explanation that includes claim, evidence and reasoning. Then they will put together their own kit that will serve a class of 35 with students working in pairs. The kit produced can be used in the years to come for class activities and student projects. We hope to see you there. Space is limited and this is a first come first serve.

NGSS 5E HS Physics Collaborative Planning Workshop

January 28, 2020 | Grades 9-12 | \$125 | Register here <https://conta.cc/2H35E0w>

NGSS curriculum resources are often challenging to navigate and develop into an appropriate scope and sequence for classrooms. Let SJCOE STEM Programs facilitate this process in a collaborative workshop with other area educators. We will explore NGSS resources and work alongside other grade-like educators to further develop 5E lessons, storylines and units that can be immediately implemented into practice.

NGSS 5E K-5 Collaborative Planning Workshop

January 29, 2020 | Grades K-5 | \$125 | Register here <https://conta.cc/2YZDjP6>

NGSS curriculum resources are often challenging to navigate and develop into an appropriate scope and sequence for classrooms. Let SJCOE STEM Programs facilitate this process in a collaborative workshop with other area educators. We will explore NGSS resources and work alongside other grade-like educators to further develop 5E lessons, storylines and units that can be immediately implemented into practice while integrating Common Core Math and ELA.

NGSS 5E Middle School Collaborative Planning Workshop

January 30, 2020 | Grades 6-8 | \$125 | Register here <https://conta.cc/2Mi3Wg0>

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Questions please call STEM Programs at 209-468-4880
Or Email Vanessa Reynoso Mercado at vreynosomercado@sjcoe.net

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NGSS 5E HS Chemistry Collaborative Planning Workshop

February 11, 2020 | Grades 9-12 | \$125 | Register here <https://conta.cc/2N0bXG5>

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Building Toward the CAST

(How do you design a 2D and a 3D assessment?)

February 25, 2020 | Grades 6-12 | \$65 | Register here <https://conta.cc/2Nj4SAr>

Come learn how to best utilize the resources for the California Science Test (CAST) including training, practice tests, rubrics and scoring guides. Participants will also experience performance tasks and collaboratively work toward creating classroom NGSS assessments to better prepare our students and to inform instruction. This will be a ½ day workshop.

NGSS 5E HS Biology Collaborative Planning Workshop

February 26, 2020 | Grades 9-12 | \$125 | Register here <https://conta.cc/2KHpvDH>

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Engineering with 3D Printing

March 21, 2020 | Grades 3-12 | \$125 | Register here <https://conta.cc/2ZfwbQ>

3D printing is a constantly expanding technology, from prototyping small electronic inventions, to building concrete structures. Students can learn engineering using 3D printers in the classroom. Join us to experience an engineering lesson and learn how to use 3D printers.



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